



```
101 class example {
102     public synchronized int inner_foo(int x, int y) {
103         return x/y;
104     }
105     public synchronized int foo(int x, int y) {
106         return inner_foo(x,y) + x;
107     }
108     public synchronized int bar(int x, int y) {
109         return x/y;
110     }
111     public void go_to_it (String[] args) {
112         int sum=0;
113         for (int i=0;i < 1000;i++) {
114             try {
115                 sum += foo(i, args.length-1);
116                 sum /= args.length-2;
117                 sum += bar(i, args.length-3);
118             } catch (Exception e) {
119                 System.out.println("caught exception\n");
120             }
121         }
122         System.out.println(sum);
123     }
124     public static void main(String[] args) {
125         example e=new e();
126         e.go_to_it(args);
127     }
128 }
```

FIG. 1

```
201 public void go_to_it (String[] args) {
202     int sum=0;
203     for (int i=0;i < 1000;i++) {
204         try {
205             synchronized(this) {
206                 int result;
207                 synchronized(this) {
208                     result = i/(args.length-1);
209                 }
210                 sum += result+i;
211             }
212             sum /= args.length-2;
213             synchronized(this) {
214                 sum += i/(args.length-3);
215             }
216         } catch (Exception e) {
217             System.out.println("caught exception\n");
218         }
219     }
220     System.out.println(sum);
221 }
```

FIG. 2

300
↙

```
301 public void go_to_it (String[] args) {
302     int sum=0;
303     for (int i=0;i < 1000;i++) {
304         try {
305             MONITORENTER(this)
306             try {
307                 int result;
308                 MONITORENTER(this)
309                 try {
310                     result = i/(args.length-1);
311                     MONITOREXIT(this)
312                 }
313                 catch (Exception e) {
314                     MONITOREXIT(this)
315                     throw e;
316                 }
317                 sum += result+i;
318                 MONITOREXIT(this)
319             }
320             catch (Exception e) {
321                 MONITOREXIT(this)
322                 throw e;
323             }
324             sum /= args.length-2;
325             MONITORENTER(this)
326             try {
327                 sum += i/(args.length-3);
328                 MONITOREXIT(this)
329             }
330             catch (Exception e) {
331                 MONITOREXIT(this)
332                 throw e;
333             }
334         }
335         catch (Exception e) {
336             System.out.println("caught exception\n");
337         }
338     }
339     System.out.println(sum);
340 }
```

FIG. 3

400 ↗

201-205	-
206-207	0
208-209	1
210-211	0
212-213	-
214-215	0
216-221	-

FIG. 4

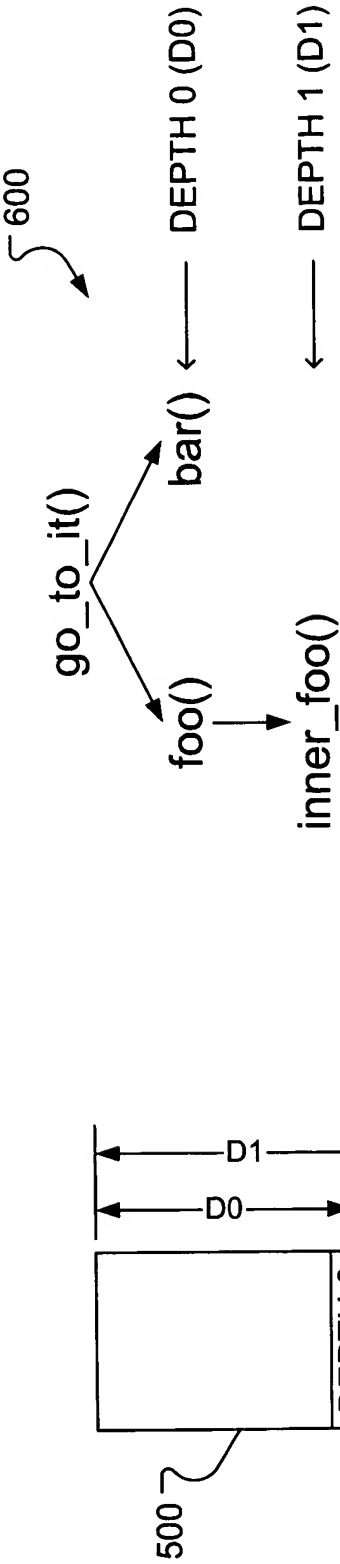


FIG. 6

FIG. 5

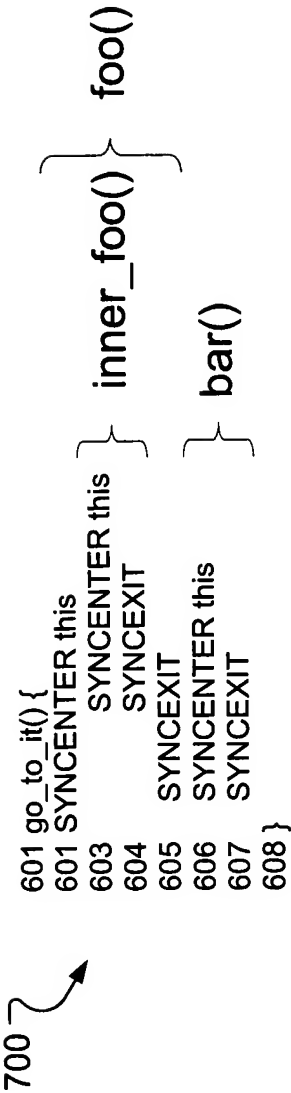
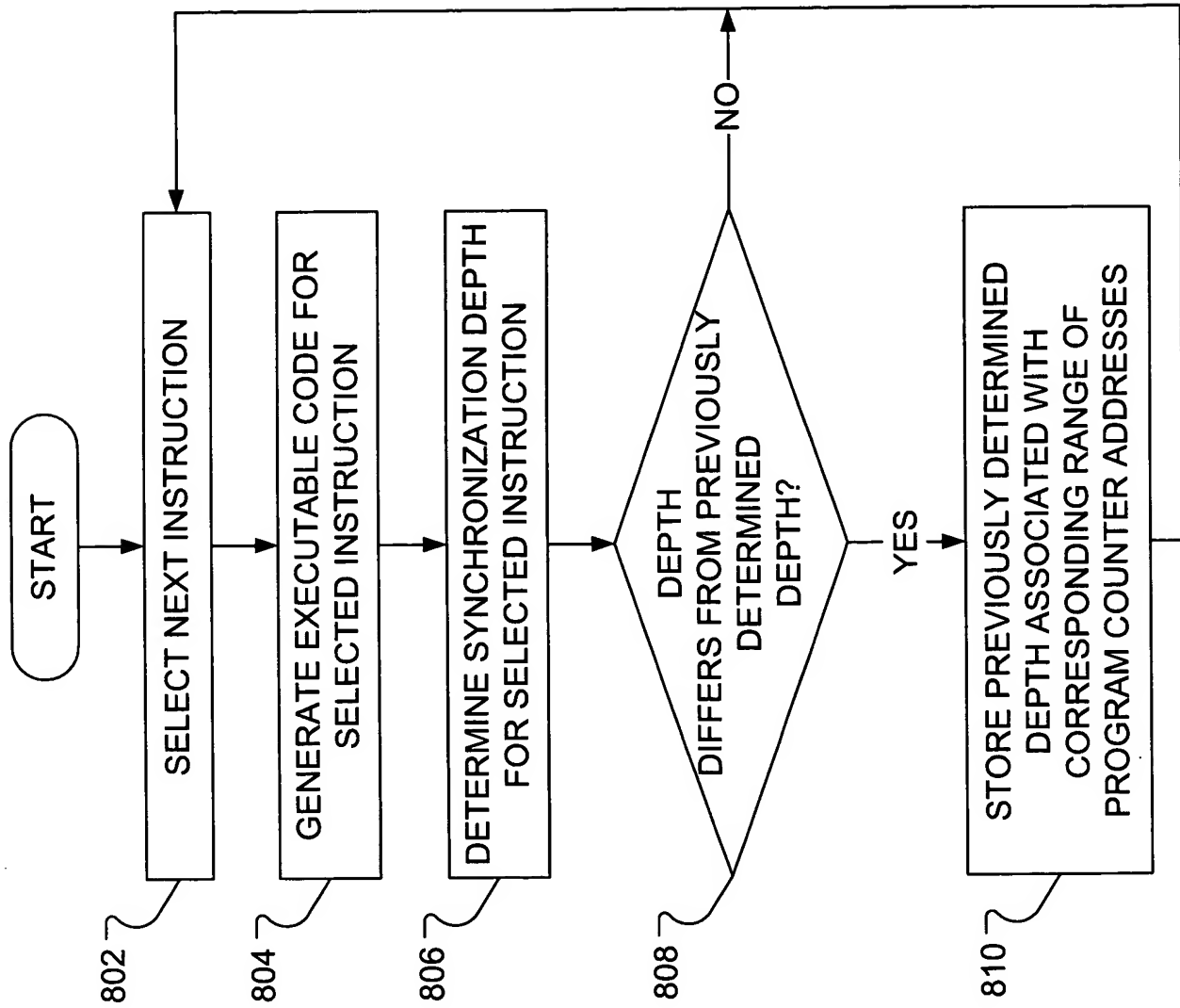
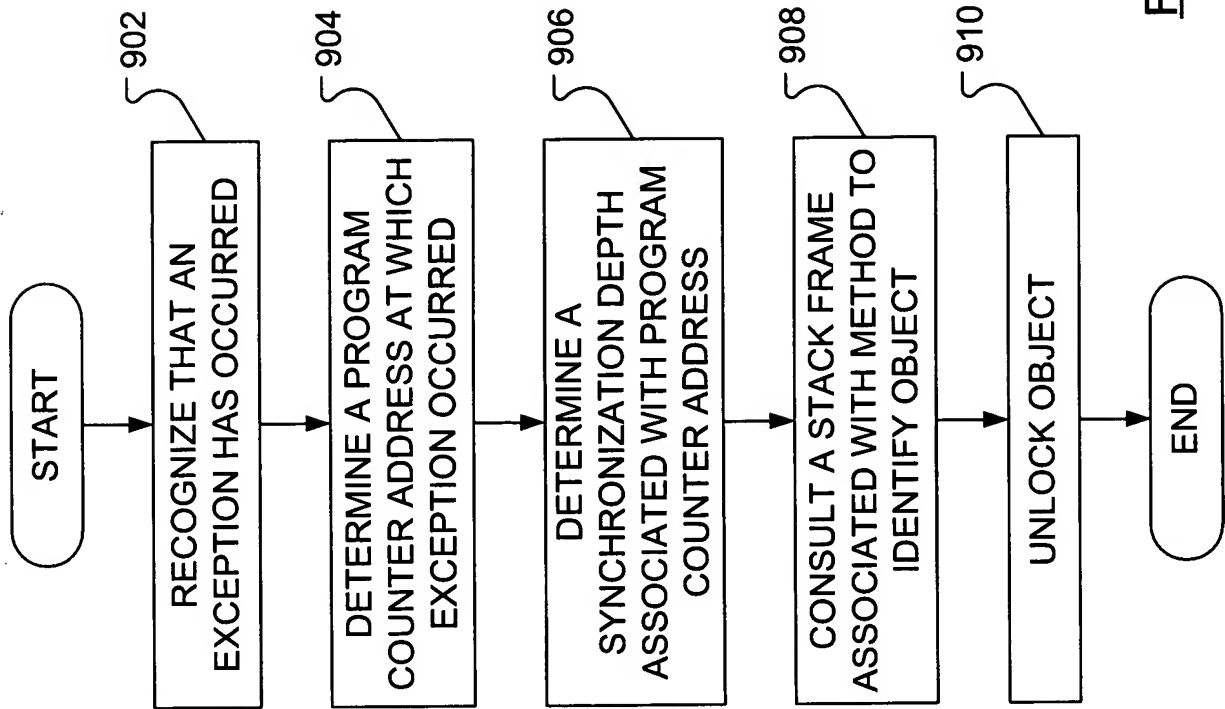


FIG. 7

**FIG. 8**

FIG. 9